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## Science and Weapons **Daily Review**

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Sanitized Copy Approved for Release 2010/08/09: CIA-RDP86R00254R000303630001-5 TOP SECRET 25X1 **CONTENTS** 3 DECEMBER 1985 25X1 3 USSR: NUCLEAR MATERIALS FREEZE MAY BE PROPOSED 25X1 A number of factors suggest that the Soviets may propose a mutual US-Soviet freeze on producing highly enriched uranium and weapons-grade plutonium. Such a proposal would be consistent with other Soviet efforts to halt the US Strategic Defense Initiative and slow the US strategic modernization program. 25X1 25X1 5 USSR: MASSIVE HERBICIDE PURCHASE The USSR has reached an agreement with the United States to purchase in 1986 50 million dollars worth of a herbicide for use in grain and sugar beet fields. This herbicide can treat up to 12 million of the 39 million hectares of grain and sugar beets allocated to the Soviet intensive technology program. 25X1

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USSR: NUCLEAR MATE	RIALS FREEZE MAY BE	PROPOSED			
concept of a mutu uranium (HEU) and nuclear reactors p These reactors are years old. Most, it finite life in the re	rs suggest that the Sovial US-Soviet freeze on weapons-grade plutor roducing plutonium for aging-the oldest is 3 f not all, of the reactors actor because of radiat	the produc nium. The S their nuclea 37 years old s use graphi ion-induced	tion of high Soviets have ar weapons and the ne ite, which h I damage.	nly enriched e nine to 13 program. ewest is 21 nas a If the	25X1
shut down their ol Repairing or replace reactors, reactors would be	eair or replace the grap dest production reactor cing the graphite would expensive at a time where we domestic economic	rs in the no I entail a ler hen Gene <u>ral</u>	t-too-dista ngthy shutd Bu	nt future. lown of the uilding new	25X1
promise to improv		g10 W (11.			25 <b>X</b> 1
are modern and co for both warheads	plutonium production rould operate for many vand naval reactors. The it has not produced HB 1986.	years. The S ne United St	Soviets are tates is pro	producing HEU ducing HEU	
					25 <b>X</b> 1
Comment:					
HEU and weapons Soviets informally Khruschev era and concept now. It warms control proposed moderates in the Leffort to halt the Lestrategic modernizes of building near plutonium and works.	e Soviets may propose grade plutonium at the proposed such a nucle they may believe it to rould build on the publicsals by appealing strouted States and West US Strategic Defense In ation program. Such a sw nuclear reactors for all of the state of the United States.	e Geneva Ar ar materials be in their city surroun ngly to antin ern Europe, itiative and treaty wou production ates to stop	ms Control freeze dur interest to ading their chuclear fact thus aiding slow the Us ld save the of weapons production	Talks. The ing the revive the earlier tions and the Soviet Soviets the s-grade in five	25X1
currently operating	reactors, one of which	n was refurb	oished recei	ntly.	
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	25 <b>X</b> ′
We estimate that the Soviets have produced more HEU and plutonium to date for warheads than has the United States, giving the Soviets slightly more flexibility in developing their future nuclear forces. Furthermore, because of the deep force reductions proposed in Geneva, the new Soviet leadership may believe that further nuclear force expansion is unnecessary.	25 <b>X</b> 1
Verifying Soviet compliance with such a treaty would be very difficult. For weapons-grade plutonium, US engineers would have to conduct comprehensive onsite inspections of reactors and reprocessing plants. Verifying a Soviet halt in HEU production would be almost impossible, even with onsite inspections, as both nations would insist on continuing production of HEU for naval reactors. We could not determine if extra HEU were being produced for warheads.	25X1 25X1

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USSR: MASSIVE HERBICIDE PURCHASE	25 <b>X</b> ′
The USSR recently reached an agreement to purchase 50 million dollars worth (714 metric tons) of a potent herbicide from a US agrochemical company in 1986 for use in grain and sugar beet fields. This chemical can be mixed with Soviet herbicides—in a ratio of 1 to 5—to increase weed control. These herbicides have proven very successful in controlling weeds that are resistant to repeated applications of the traditional Soviet chemicals. In addition, the Soviets are negotiating with the United States for a turnkey production plant to be completed in five to six years, which could produce up to 1,400 metric tons of this chemical per year.	25X1
Comment:	
The Soviets are expanding the amount of farmland devoted to "intensive technology," a farming practice that calls for using high-yield varieties, applying proper doses of fertilizers and pesticides, and observing optimal field work deadlines to try and boost agricultural yields. The 714 metric tons of herbicide ordered from the United States, a 700-percent increase in just two years, can be used in 1986 to treat up to 12 million of the 39 million hectares allocated to the intensive technology program in grain and sugar beets. Preliminary Soviet reports indicate that in 1985 some intensively cultivated fields yielded as much as 150 to 200 percent more grain than traditionally cultivated fields.	25 <b>X</b>
grain than traditionally cultivated fields.	25X
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